

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Olink® Target 48 Detection Kit

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Research use only
Uses advised against: Only for laboratory use

1.3 Details of the supplier of the safety data sheet

|| Olink Proteomics AB
Salagatan 16F
SE-753 30 Uppsala, SWEDEN
+46 18 444 39 70
www.olink.com
info@olink.com

1.4 Emergency telephone number

112 (In Sweden, ask for "Giftinformationscentralen")

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Does not meet the criteria for classification according to EG no 1272/2008 CLP.
See section 16 for explanations to hazard statements.

2.2 Label elements

According to EG no 1272/2008 CLP

Hazard pictograms: Not applicable
Signal words: Not applicable
Hazard statements: Not applicable
Precautionary statement: Not applicable
Supplemental label elements: Not applicable

2.3 Other hazards

The product does not contain substances considered or suspected to have endocrine disrupting properties.

The product does not contain substances classified PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

The Olink® Target 48 Detection Kit consists of eight (8) components:

- Negative Control (Art no 44001)
- PEA Solution (Art no 44002)
- PEA Enzyme (Art no 44003)
- PCR Polymerase (Art no 44004)
- Detection Enzyme (Art no 44005)
- Primer Plate (Art no 44014)
- Detection Solution (Art no 44015)
- PEA Enhancer (Art no 44016)

Detection Solution

Substance	EC no	Reg. no	CAS no	Conc. %	Pictogram	Hazard statement ¹	Category
BSA	232-936-2	Not available	9048-46-8	1	GHS07	H302 H335	Acute Tox. 4 STOT SE 3

PEA Enhancer

Substance	EC no	Reg. no	CAS no	Conc. %	Pictogram	Hazard statement ¹	Category
DMSO ²	200-664-3	01-2119431362-50	67-68-5	100	Not applicable	Not applicable	Not applicable

Negative Control

Substance	EC no	Reg. no	CAS no	Conc. %	Pictogram	Hazard statement ¹	Category
2-Chloroacetamide	201-174-2	01-2119958971-23-0001	79-07-2	< 0.1 %	GHS08 GHS06	H301 H317 H361f	Acute Tox. 3 Skin Sens. 1 Repr. 2

All other components in the kit do not contain hazardous substances in concentrations that must be specified according to current legislation.

1) See section 16 for explanations to Hazard statements

2) This substance has an occupational exposure limit value – section 8

SECTION 4: First aid measures

The information below is applicable to all components in the kit unless otherwise specified.

4.1 Description of first aid measures

General recommendations

Keep the person warm and calm. Don't give anything to eat or drink if the person is unconscious. In cases of doubt or when symptoms persist, seek medical attention. Show this safety data sheet to the doctor.

Inhalation

Fresh air.

Consult a doctor if feeling unwell.

Skin contact

Wash the skin with soap and water.

Eye contact

Rinse the eyes with lukewarm water.

Remove contact lenses.

Contact an eye doctor if symptoms arise and persist.

Ingestion

Rinse the mouth with water.

4.2 Most important symptoms and effects, both acute and delayed**Eye contact**

Eye exposure may cause a slight transient irritation.

Skin contact

Negative Control

May cause an allergic skin reaction.

Other components

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

The information below is applicable to all components in the kit.

The product is not classified as flammable.

5.1 Extinguishing media

Choose extinguishing media dependent on what is on fire in the vicinity, CO₂, dry chemicals, foam or water.

5.2 Special hazards arising from the substance or mixture

No known.

5.3 Advice for firefighters

If necessary, wear self-contained breathing apparatus for firefighting.

SECTION 6: Accidental release measures

The information below is applicable to all components in the kit.

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves.

Avoid inhalation.

6.2 Environmental precautions

Prevent releases to enter sewer and watercourses.

6.3 Methods and material for containment and cleaning up

Spills should be collected with absorbing material (vermiculite, sand or similar) and put in a sealed container.

Clean the area with water.

6.4 Reference to other sections

See sections 8 and 13.

SECTION 7: Handling and storage

The information below is applicable to all components in the kit.

7.1 Precautions for safe handling

Handle with care to avoid microbial contamination.

Do not eat, drink or smoke while using the product.

Wash hands after use.

Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

See instructions manual for the product and store as directed by the product packaging.

7.3 Specific end use(s)

Only for laboratory use - Research use only

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits Sweden (AFS 2018:1)

PEA Enhancer

Substance	Long-term exposure limit (8h) ppm / mg/m ³	Short-term exposure limit (15 min) ppm / mg/m ³	Note
DMSO	50/150	150/500	H = can easily penetrate the skin

8.2 Exposure controls

Personal protection

Respiratory protection – required if there is a risk that dust or fumes are generated.

Hand protection – wear protective gloves.

Eye protection – use safety glasses if there is a risk of splashing.

Skin protection – wear protective clothing.

Ensure access to eye wash.

Environmental exposure controls

See section 12.

SECTION 9: Physical and chemical properties

The information below is applicable to all components in the kit unless otherwise specified.

9.1 Information on basic physical and chemical properties

Appearance	Clear Liquid
Colour	Colorless
Odour	No information available
pH (at 20 °C)	PEA Solution: $8.8 \pm 0,05$ Primer plate: 7.5 Detection Solution: $7.35 \pm 0,3$ Other components: no information available
Melting point	No information available
Flash point	Not flammable
Flammability	Not flammable
Boiling point	No information available
Ignition temp	No information available
Density (at 20°C)	No information available
Viscosity	No information available
Explosion limit	No information available
Vapour pressure	No information available
Decomposition temperature	No information available
Solubility	No information available
Partition coefficient	Not applicable
Relative vapour density	No information available
Particle characteristics	Not applicable

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

The information below is applicable to all components in the kit.

10.1 Reactivity

Stable during recommended usage- and storing conditions.

10.2 Chemical stability

Stable during recommended usage- and storing conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

The information below is applicable to all components in the kit.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Mixtures

The mixture has not been tested.

Likely routes of exposure – skin.

Assessment based on ingredients.

Acute toxicity inhalation/oral/dermal

No data available.

Skin corrosion/erosion

No data available.

Serious eye damage/irritation

No data available.

Respiratory or skin sensitization

Negative Control

Contains 2-Chloroacetamide which may cause an allergic skin reaction.

Other components

Does not contain substances classified as sensitizing.

Carcinogenicity

Does not contain substances classified as carcinogenic.

Germ cell mutagenicity

Does not contain substances classified as mutagenic.

Toxicity for reproduction

Negative Control

Contains 2-Chloroacetamide which is suspected of damaging fertility.

Other components

Does not contain substances classified as toxic for reproduction.

Specific target organ toxicity – single exposure

No data available.

Specific target organ toxicity – repeated exposure

No data available.

Aspiration hazard

No data available.

11.2 Information on other hazards

No data available.

SECTION 12: Ecological information

The information below is applicable to all components in the kit.

The product has not been tested.

12.1 Toxicity

Based on ingredients - the product is not classified as toxic to the environment.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

The product does not contain compounds classified PBT or vPvB.

12.6 Endocrine disrupting properties

Does not contain substances with endocrine disrupting or suspected endocrine disrupting properties.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations

The information below is applicable to all components in the kit.

13.1 Waste treatment methods

Discarded unused product

Discarded unused product is not classified as hazardous waste according to EU Directive 2008/98/EC.

Observe federal, state and local environmental regulations. Contact a licensed professional waste disposal service.

Packaging

Should be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

The information below is applicable to all components in the kit.

The product is NOT classified as dangerous goods according to ADR/RID/IMO/DGR.

14.1 UN number or ID number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

The product is not classified as toxic for the environment.

14.6 Special precautions for user

None.

14.7 Maritime transport in bulk according to IMO instruments

The product is not transported in bulk.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

ADR – European Agreement Concerning the International Carriage of Dangerous goods by Road.
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP)
DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives
AFS 2018:1 - Hygieniska gränsvärden – Occupational limit values in Sweden.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Indication of changes

Notable changes in this safety data sheet are indicated with two vertical lines (||) in the left margin.

Explanations to hazard statements

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H361f Suspected of damaging fertility.

Abbreviations

PBT: persistent, bioaccumulative and toxic

PBT/vPvB: persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative

vPvB: very persistent and very bioaccumulative

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