

Section 1 - Product Identification/ Manufacturer

Trade name : Fluorescent kit glutaredoxin activity assay

Catalog name: FkGRX-01

CAS number: NA

Manufacturer: IMCO Corporation Ltd AB
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Section 2 –Composition/Information on ingredients

| Name of reagents | Ingredients | CAS # | Concentration |
|--|---------------------------------------|-----------|---|
| Assay stabilizing reagent | Bovine albumin serum | NA | 0.5mg dry substance |
| Ethylenediaminetetraacetate | Dry substance | 6381-92-6 | 1 ml of 10 mM dried |
| Potassium phosphate | Dry substance | 7778-77-0 | 1ml of 1.00 M dried |
| Glutathione reduced | Dry substance | 70-18-8 | 50 µl of 0.1 M dried |
| NADPH: reduced nicotinamide adenine nucleotide phosphate | Dry substance | 2646-71-1 | 0.5 ml of 4 mg/ml dried |
| Baker yeast glutathione reductase | Protein in 50% glycerol | NA | 10 µl of 50 µM enzyme plus 50 % glycerol |
| Human glutaredoxin 1 | Recombinant protein | NA | 56 ng dry substance |
| Fluorescent substrate: Fluorescent glutathionylated bovine serum albumin | Eosinlabelled GSH bound to protein | NA | 1.0 ml of 0.2 mM as dry substance |

Section 3 – Hazards Identification

Avoid contact and inhalation.

To the best of our knowledge, toxicological properties have not been investigated.

Section 4 – First Aid Measures

If inhaled, remove to fresh air. Get immediate medical attention.

If swallowed, wash out mouth with water if the person is conscious. Get medical attention.

In case of skin contact, immediately wash skin with soap and excess water.

In case of contact with eyes wash with large amounts of water. Call a physician

Section 5- Fire Fighting Measures

Extinguish media suitable: water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special risk: none

Special hazard. None
Special protective equipment for fire fighters: none

Section 6- Accidental Release Measures

Procedures of personal protection:
Wear suitable laboratory protective equipment like lab coat, gloves and safety glasses
Methods of cleaning up:
Sweep up, place in bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7- Handling and Storage

Storage.
Condition of storage. Store at 2-8 °C or -20 °C.
Handling: Directions for safe handling include to avoid contact with eyes, skin and clothing and repeated exposure. Wear suitable protective clothing like lab coat, gloves and safety glasses. Wash after contact.

Section 8 – Exposure Controls/ Personal Protection

Engineering controls: mechanical exhaust required.
General hygiene measures: wash thoroughly after handling.
Personal protective equipment: none
Respiratory protection: none
Hand protection: gloves suitable for lab work.
Body protection: protective clothing.

Section 9 – Physical and Chemical Properties

Physical State: dry powder salt-free.
Color: colorless.
Smell: odorless
pH value. Neutral
Melting point: no data.
Boiling point: no data.
Flash point: no data.
Solubility in water. Soluble.
Partition coefficient octanol/water: no data.

Section 10- Stability and Reactivity

Stability: Stable.
Conditions to be avoided: heat and strong acid or alkali.

Hazardous decomposition products: unknown.

Section 11 – Toxicological Information

The product contains no toxic component.

Acute toxicity: unknown

LD 50 oral rat (mg/kg): unknown.

LD50 inhalation: unknown.

Toxicological properties have not been studied for this pure protein.

Section 12- Ecological Information

Release to the environment: nontoxic

Water hazard: not known

Section 13 Disposal Information

Substance Disposal: Observe all state, federal and local environmental regulations. The protein can be burnt, washed out in the sink or taken care of by a disposal service.

Section 14 – Transport Information

RID/ADR: No limitation for road transport.

IMDG: No limitation for sea transport.

IATA: No limitation for air transport.

Section 15 – Regulatory Information

According to the Act No 157/1998 Coll. on chemical substances and chemical preparations and on amendments in some other laws and acts, the components in the Glutaredoxin 1 E. coli C14S protein are nonhazardous substances in said amounts and concentrations.

Section 16- Other Information

Warranty: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Use of product:

For R&D use only. Not for drug, household or other uses.

IMCO

Material Safety Data Sheet

Date : 22/06/12