ALPHA DIAGNOSTIC INTERNATIONAL

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Product Specification Sheet

□ **Cat.** TFAS15-2 Non-oxidizing solvent for dissolving hydrophobic peptides contains Cys, Met, Trp
SIZE: 2 ml

TFAS15-2 is a special solvent developed to dissolve in highly hydrophobic peptides that do no dissolve in water or aqueous buffer. Typically, DMF or DMSO solvents are utilized to dissolve hydroiphobic peptide. Some peptide may not dissolve in DMF or DMSO solvents. DMSO can oxidize some amino acids such as Cysteine, Methionine, and Tryptophan. #TFAS15-2 is a powerful solvent but it is gentle and non-oxidizing for sensitive amino acids.

Trifluoroacetone is a biologically active molecule and is a blood pressure reducing substance. It is a building block in organic synthesis. The acidity of trifluoroacetone is greater than that of acetone, thus relatively mild basic conditions are sufficient to produce the enolate required for carbon-carbon bond formation reactions. Trifluoroacetone is therefore used as a building block in the synthesis of complex fluorinated molecules that contain a CF3 group.

Mol. Wt.: 112.05
Boiling Pt.: 21.9 oC
Melting Pt.: -78 oC
Flash Pt.: -30 oC
Vapor Pressure: 13.5 psi @ 20 oC
Density: 1.252 g/ml
Appearance: Clear liquid
pH 5.00-6.00

Form and Storage

Supplied as liquid in brown bottles. Store at 2-4oc.

Recommended use

We recommend that each solvent must first be tested in controlled conditions to study its solubility properties.

Take 1 mg of peptide and add 50 ul of solvent. If the peptide does not dissolve then add more solvent in small increments (25-50 ul) until peptide dissolves. Keep the amount of solvent to a minimum to avoid potential toxicity. Dilute the peptide solution with a desire buffer to see if it remains soluble.

As with any solvent, it is necessary to include solvent alone as a control in any in vitro or in vivo assay.

Storage

Short-term: unopened, undiluted liquid vials for less than a week at 4oC.

Stability: 6 months at 4oC or below.
Shipping: Room temp for

*This product is for in vitro research use only.

India Contact:
Life Technologies (India) Pvt. Ltd.
306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com