Product Data Sheet

Product Name: Prosaptide TX14(A)

Catalog Number: AS-60248-1 (1 mg)
Lot Number: See label on vial
AS-60248-5 (5 mg)

Sequence: H-Thr-D-Ala-Leu-Ile-Asp-Asn-Asn-Ala-Thr-Glu-Glu-Ile-Leu-Tyr-OH
(3-letter code)
TaLIDNNATEEILY (1-letter code)

Molecular Weight: 1579.7

Peptide Purity: >95%

Appearance: Lyophilized white powder

Peptide Reconstitution: Prosaptide TX14(A) peptide is freely soluble in 1% NH₄OH.

Storage: Prosaptide TX14(A) peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at –20°C or lower. Reconstituted peptide can be aliquoted and stored at –20°C or lower.

Description: This 14-mer prosaptide sequence is derived from the active neurotrophic region in the amino-terminal portion of the saposin C domain. Synthetic peptides derived from this region are biologically active and are named “prosaptides.” Prosaposin and prosaptides are active on a variety of neuronal cells, stimulating sulfatide synthesis and increasing sulfatide concentration in Schwann cells and oligodendrocytes. This indicates that prosaposin and prosaptides are trophic factors for myelin formation. Ref: Campana, M. et al. FASEB J. 12, 307 (1998); Hiraiwa, M. et al. Proc. Natl. Acad. Sci. USA 94, 4778 (1997); Taylor, E. et al. Pharmacol. 295, 190 (2000); Calcutt, NA. et al. Anesthesiology 93, 1271 (2000).

Additional Information: Listed below are relevant information that may provide a guideline on how to use this product. End users will have to adapt to their own specific applications.

TX14(A), a prosaptide (TX14(A)=TXLIDNNATEEILY, where X equals D-alanine) derived from the neurotrophic region of saposin C, was synthesized commercially to 98% purity (AnaSpec, San Jose, Calif.).iSC cells (approximately 2.0x10⁷) were incubated in DMEM/F12 without serum 18 h before stimulation with TX14(A) for 5 min at 37°C-Campana, W. M. et al. FASEB J. 12, 307 (1998).

Published Citations:


©AnaSpec, Inc. 34801 Campus Drive, Fremont, CA 94555
Tel: (800)-452-5530 | service@anaspec.com | www.anaspec.com

For Research Use Only