

Product Data Sheet

Product Name: tris-NTA (trifluoroacetate salt)

Cat. No.: GC92086

Chemical Properties

Cas. No.

Chemical Name (α1S,α4S,α8S)-11-(6-amino-1-oxohexyl)-α1,α4,α8-tris[bis(carboxymethyl)amino]-δ1,δ4,δ8-trioxo-1,4,8,11-tetraazacyclotetradecane-1,4,8-tripentanoic acid, trifluoroacetate salt

SMILES O=C(N1CCN(CCCN(CCN(CCC1)C(CC[C@@H](C(O)=O)[NH+](CC(O)=O)CC(O)=O)=O)C(CC[C@@H](C(O)=O)[NH+](CC(O)=O)CC(O)=O)=O)C(CCCCC[NH3+])=O)CC[C@@H](C(O)=O)[NH+](CC(O)=O)CC(O)=O.[O-]C(C(F)(F)F)=O

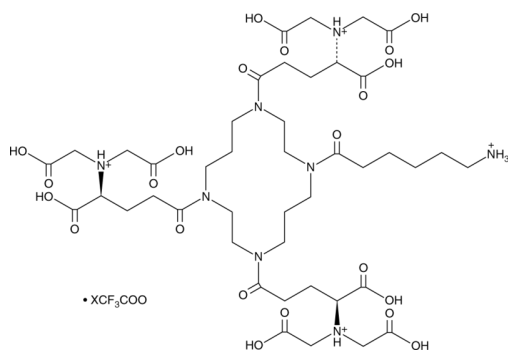
Formula $C_{43}H_{72}N_8O_{22} \cdot XCF_3COO$ M.Wt 1053.1

Solubility Water: Soluble Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

tris-NTA is a His-tagged protein ligand.^{1,2} It has been used alone, or conjugated to fluorophores, for the purification and detection of His-tagged proteins.

References:

[1]. Huang, Z., Hwang, P., Watson, D.S., et al. Tris-nitrilotriacetic acids of subnanomolar affinity toward hexahistidine tagged molecules Bioconjug. Chem. 20(8)1667-1672(2009).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

[2]. Glembockyte, V., Wieneke, R., Gatterdam, K., et al. Tris-N-nitrilotriacetic acid fluorophore as a self-healing dye for single-molecule fluorescence imaging *J. Am. Chem. Soc.* 140(35)11006-11012(2018).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA