

transferrin fragment

Chemical Properties

CAS No.:	TP2298
Formula:	C75H121N23O28S
Molecular Weight:	1824.97
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Transferrin is the principal iron-binding protein in animal serum and is analogous in its iron-binding site and properties to lactoferrin ¹ . Human transferrin is a single-chain glycoprotein of molecular weight near 80,000. The molecule is arranged in two lobes, each bearing a single metal-binding site.
In vitro	Although similar in ligand structure ^{2, 3} , the sites are distinguishable in many of their properties ^{4, 5} . Sequence homology between the lobes ⁶ and internal homology in the organization of the transferrin gene ⁷ establishes that the modern protein arose by duplication and fusion of a primitive gene specifying a single-sited transferrin precursor protein. Each lobe of the transferrin molecule contains a recognition site for the chick receptor, and that both lobes are required for binding to receptor ⁸ . The receptor-binding activity of human transferrin is essentially confined to the C-terminal lobe and is preserved in the C-fragment even in the absence of the N-fragment.

Solubility Information

Solubility	DMSO: ≥182.4mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.548 mL	2.74 mL	5.48 mL
5 mM	0.11 mL	0.548 mL	1.096 mL
10 mM	0.055 mL	0.274 mL	0.548 mL
50 mM	0.011 mL	0.055 mL	0.11 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Inhibitors · Natural Compounds · Compound Libraries

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