

Immunoglobulin M heavy chain (IGHM) fragment [Homo sapiens]

Chemical Properties

CAS No. :

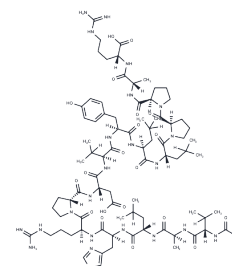
Formula: C82H132N24O20

Molecular Weight: 1774.07

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Immunoglobulin M heavy chain (IGHM) fragment [Homo sapiens] is a fragment (Gly-Val-Ala-Leu-His-Arg-Pro-Asp-Val-Tyr-Leu-Leu-Pro-Pro-Ala-Arg) on the human immunoglobulin micro heavy chain. Immunoglobulins (Ig) are the antigen recognition molecules of B cells. An Ig molecule is made up of 2 identical heavy chains and 2 identical light chains joined by disulfide bonds so that each heavy chain is linked to a light chain and the 2 heavy chains are linked together. Each Ig heavy chain has an N-terminal variable (V) region containing the antigen-binding site and a C-terminal constant (C) region, encoded by an individual C region gene, that determines the isotype of the antibody and provides effector or signaling functions.
Targets(IC50)	Others
In vitro	The IGHM gene encodes the C region of the mu heavy chain, which defines the IgM isotype. Naive B cells express the transmembrane forms of IgM and IgD on their surface. During an antibody response, activated B cells can switch to the expression of individual downstream heavy chain C region genes by a process of somatic recombination known as isotype switching. In addition, secreted Ig forms that act as antibodies can be produced by alternative RNA processing of the heavy chain C region sequences. Although the membrane forms of all Ig isotypes are monomeric, secreted IgM forms pentamers, and occasionally hexamers, in plasma.

Solubility Information

Solubility	DMSO: ≥177.4 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5637 mL	2.8184 mL	5.6368 mL
5 mM	0.1127 mL	0.5637 mL	1.1274 mL
10 mM	0.0564 mL	0.2818 mL	0.5637 mL
50 mM	0.0113 mL	0.0564 mL	0.1127 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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