

IRBP (651-670) (human) TFA

Chemical Properties

CAS No. :

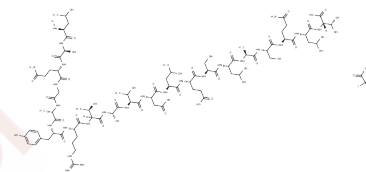
Formula: C91H151N25O32.XCF3COOH

Molecular Weight: 2107.30

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	Interphotoreceptor retinoid-binding protein (651-670) (IRBP651-670), a peptide fragment of retinoid-binding protein 3 (also known as IRBP), plays a crucial role in the visual cycle by facilitating the transport of retinol and retinal between photoreceptor cells and the retinal pigment epithelium. This transport is essential for the regeneration of pigments necessary for vision. When administered at a dose of 300 µg/animal, IRBP651-670 induces autoimmune uveoretinitis in C57BL/6 mice, a model possessing the H-2b haplotype. This immunization leads to increased levels of ocular cytokines including IL-1β, IL-6, IL-17, TNF-α, and IFN-γ, promotes immune cell infiltration into the eye, and results in photoreceptor cell damage.
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Solubility Information

Solubility	DMSO: 10 mg/mL (4.75 mM), Sonication is recommended. DMF: 1 mg/mL (0.47 mM), 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	0.4745 mL	2.3727 mL	4.7454 mL
5 mM	0.0949 mL	0.4745 mL	0.9491 mL
10 mM	0.0475 mL	0.2373 mL	0.4745 mL
50 mM	0.0095 mL	0.0475 mL	0.0949 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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