

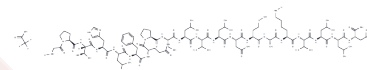
IRBP (1-20) (human, rat) TFA

## Chemical Properties

CAS No. :

Formula: C101H164N24O28S.XCF3COOH

Molecular Weight: 2194.59



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 (1-20) (IRBP1-20), a dodecapeptide fragment of retinoid-binding protein 3, plays a crucial role in pigment regeneration by facilitating the transport of retinol and retinal between photoreceptor cells and the retinal pigment epithelium. It has been utilized to provoke autoimmune uveoretinitis in C57BL/6 mice, possessing the H-2b haplotype. Furthermore, IRBP1-20 at a concentration of 3 $\mu$ M enhances the secretion of IL-4, IL-5, and IL-6 from primary mouse spleen lymphocytes. Immunization and subsequent rechallenge with IRBP1-20 lead to increased ear swelling, inflammation of ocular blood vessels, infiltration by immune cells, damage to the photoreceptor layer, and retinal detachment in IFN- $\gamma$ -deficient mice.
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## Solubility Information

Solubility	10% ACN/H <sub>2</sub> O: Soluble ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4557 mL	2.2783 mL	4.5567 mL
5 mM	0.0911 mL	0.4557 mL	0.9113 mL
10 mM	0.0456 mL	0.2278 mL	0.4557 mL
50 mM	0.0091 mL	0.0456 mL	0.0911 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

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481