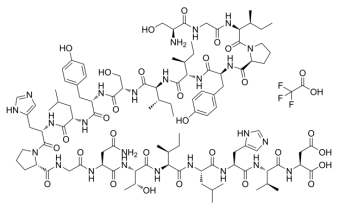
Interphotoreceptor Retinoid Binding Protein Fragment (IRBP) (TFA)



Cat. No.: HY-P1861A

Molecular Formula: $C_{105}H_{158}F_3N_{25}O_{31}$

Molecular Weight: 2323.52

Sequence: Ser-Gly-Ile-Pro-Tyr-Ile-Ile-Ser-Tyr-Leu-His-Pro-Gly-Asn-Thr-Ile-Leu-His-Val-Asp

Sequence Shortening: SGIPYIISYLHPGNTILHVD

Target: Others

Pathway: Others

Storage: Sealed storage, away from moisture and light, under nitrogen

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro

H_2O : ≥ 45 mg/mL (19.37 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.4304 mL	2.1519 mL	4.3038 mL
	5 mM	0.0861 mL	0.4304 mL	0.8608 mL
	10 mM	0.0430 mL	0.2152 mL	0.4304 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Interphotoreceptor Retinoid Binding Protein Fragment (IRBP) TFA, a 20-residue peptide and a major pathogenic epitope, is present in the first homologous repeat of the interphotoreceptor retinoid binding protein peptide (IRBP 161–180), which can induce posterior uveitis (EAU)[1].

REFERENCES

[1]. Tang J, et al. Autoimmune uveitis elicited with antigen-pulsed dendritic cells has a distinct clinical signatureand is driven by unique effector mechanisms: initial encounter with autoantigen defines diseasephenotype. J Immunol. 2007 May 1;178(9):5578-87.

[2]. Cortes LM, et al. Inhibitory peptide analogs derived from a major uveitogenic epitope protect from antiretinalautoimmunity by inducing type 2 and regulatory T cells. J Leukoc Biol. 2008 Aug;84(2):577-85.

[3]. Yang H, et al. Activation of liver X receptor alleviates ocular inflammation in experimental autoimmune uveitis. Invest Ophthalmol Vis Sci. 2014 Apr 28;55(4):2795-804.

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