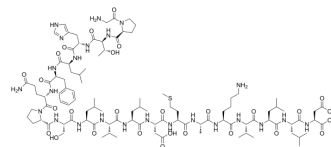


IRBP (1-20), human

Cat. No.:	HY-P1587
CAS No.:	298202-25-2
Molecular Formula:	C ₁₀₁ H ₁₆₄ N ₂₄ O ₂₈ S
Molecular Weight:	2194.59
Sequence:	Gly-Pro-Thr-His-Leu-Phe-Gln-Pro-Ser-Leu-Val-Leu-Asp-Met-Ala-Lys-Val-Leu-Leu-Asp
Sequence Shortening:	GPTHLFQPSLVLDMAKVLLD
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



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

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (45.57 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		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
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (1.14 mM); Suspended solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (1.14 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	IRBP (1-20), human contains a major epitope for the H-2 ^b haplotype. IRBP (1-20), human induces experimental autoimmune uveoretinitis (EAU) in H-2 ^b mice ^{[1][2]} .
In Vivo	IRBP (1-20), human TFA induces EAU ^[2] . For determination of proliferative and cytokine responses, lymph node and spleen cells are collected 21 days after immunization and are stimulated in culture with the appropriate antigen. Cells of C57BL/6 mice and 129/J mice immunized with IRBP (1-20), human TFA proliferated in response to the peptide ^[2] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	C57BL/6 (H-2 ^{bb}) ^[2]
Dosage:	200, 300 µg
Administration:	I.h.; After 21 days
Result:	C57BL/6 (H-2 ^{bb}) also developed disease, albeit with a lower average score than C57BL/6.

REFERENCES

[1]. Avichezer D, et al. Residues 1-20 of IRBP and whole IRBP elicit different uveitogenic and immunological responses in interferon gamma deficient mice. *Exp Eye Res.* 2000;71(2):111-118.

[2]. Avichezer D, Silver PB, Chan CC, Wiggert B, Caspi RR. Identification of a new epitope of human IRBP that induces autoimmune uveoretinitis in mice of the H-2b haplotype. *Invest Ophthalmol Vis Sci.* 2000;41(1):127-131.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA