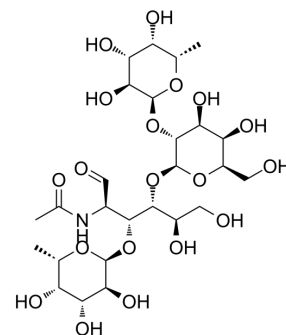


Lewis y tetrasaccharide

Cat. No.:	HY-N10535		
CAS No.:	82993-43-9		
Molecular Formula:	C ₂₆ H ₄₅ NO ₁₉		
Molecular Weight:	675.63		
Target:	FAK		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (185.01 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.4801 mL	7.4005 mL	14.8010 mL
5 mM	0.2960 mL	1.4801 mL	2.9602 mL
10 mM	0.1480 mL	0.7401 mL	1.4801 mL

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

BIOLOGICAL ACTIVITY

Description

Lewis Y tetrasaccharide (Lewis Y, Le^Y) is a tetrasaccharide derivative form of [Lewis X trisaccharide](#) (HY-N10534). Lewis Y tetrasaccharide is an antigen associated with malignant ovarian carcinomas metastasis and poor prognosis^{[1][2]}.

In Vitro

Lewis Y tetrasaccharide activates FAK signaling pathway and upregulating Bcl-2/Bcl-XL expression to enhance cell adhesion mediated drug resistance (CAM-DR) in ovarian cancer cells^[1].

Lewis Y tetrasaccharide results in integrin $\alpha 5\beta 1$ level increase in ovarian carcinoma-derived cells exhibiting enhanced expression of Le^Y (RMG-1-hFUT)^[2].

Lewis Y tetrasaccharide enhances the adhesive and spreading potentials mediated by the integrin-fibronectin interaction of ovarian carcinoma RMG-1 cells^[2].

Anti-Le^Y antibodies (10 μ g/mL; 37 \square ; 24 h) significantly inhibits the proliferation and adhesion ability of RMG-1-hFUT cells cultured in vivo^[2].

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

REFERENCES

[1]. Yan LM, et al. Enhancement of the adhesive and spreading potentials of ovarian carcinoma RMG-1 cells due to increased expression of integrin alpha5beta1 with the Lewis Y-structure on transfection of the alpha1,2-fucosyltransferase gene. *Biochimie*. 2010 Jul;92(7):852-7.

[2]. Yan L, et al. Lewis y enhances CAM-DR in ovarian cancer cells by activating the FAK signaling pathway and upregulating Bcl-2/Bcl-XL expression. *Biochimie*. 2015 Jun;113:17-25.

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

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