Product Data Sheet

Product Name: DTLMISR acetate
Cat. No.: GC81646

Chemical Properties

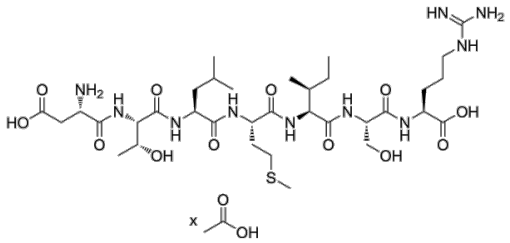
Cas. No.

Formula	$C_{34}H_{62}N_{10}O_{12}S \cdot xC_2H_{42}$	M.Wt	834.98
Solubility		Storage	Sealed storage, away from moisture

General tips: For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.

Shipping Condition: Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Product Data Sheet

DTLMISR acetate is a tryptic peptide widely present in the Fc regions of all four human IgG subclasses. DTLMISR acetate contains a methionine residue susceptible to both post-translational modification oxidation and artificial oxidation, and its oxidized form requires specific detection via LC-MRM before SILuMAb aliquoting and storage [1] [2] [3] [4].

References:

[1]. Lesur A, Varesio E, Hopfgartner G. Protein quantification by MALDI-selected reaction monitoring mass spectrometry using sulfonate derivatized peptides. Analytical chemistry. 2010 Jun 15;82(12):5227-37.
[2]. Vialaret J, Broutin S, Pugnier C, et al.. What sample preparation should be chosen for targeted MS monoclonal antibody quantification in human serum?. Bioanalysis. 2018 May 01;10(10):723-735.
[3]. Hong Q, Lebrilla CB, Miyamoto S, et al.. Absolute quantitation of immunoglobulin G and its glycoforms using multiple reaction monitoring. Analytical chemistry. 2013 Sep 17;85(18):8585-93.
[4]. Kleinberg A, Yoon J, Mao Y, et al.. Eliminating liquid chromatography-induced methionine oxidation of monoclonal antibodies using high-concentration TCEP injections: The "anTCEPtic" column cleaning method. Journal of pharmaceutical sciences. 2026 Jun;115(6):104298.

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