



Ceftazidime [KLH] (DAG4482)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Ceftazidime, KLH-conjugate
Antigen Description	The ceftazidime hydrate and KLH (keyhole limpet hemocyanin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. The carboxyl group in the ceftazidime is directly linked to an amine group in the KLH, and/or a carboxyl group in the KLH is directly linked to the amine group in the ceftazidime, without any linker by EDC conjugation method. Given the molecular weights of ceftazidime hydrate and KLH are 546.58 Da and 8,000 – 9,000 kDa, respectively, the molar ratio of ceftazidime:KLH in the conjugation solution is 14636 - 16466:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of ceftazidime that is actually conjugated to each KLH molecule is not determined. Note: Due to its high molecular weight and its tendency to form aggregates, the conjugate is not completely soluble in the buffer that it is in. Therefore, it is strongly recommended to vigorously vortex immediately prior to aliquot or use.
Species	N/A
Conjugate	KLH
Applications	Potentially used as immunogen for the generation of anti-ceftazidime antibodies. The ceftazidime, KLH-conjugate has not been tested as an immunogen for its immunogenicity of the conjugated ceftazidime in generating ceftazidime-specific antibodies in animals.
Format	Liquid
Concentration	Approximately 2.0 mg/mL KLH
Size	1 mg
Buffer	Supplied in 20 mM PBS, pH 7.4
Preservative	None

Storage	Keep below -20°C for up to 1 year. Avoid repeated freeze-and-thaw. For short term storage (< 3 weeks) keep at 4°C.
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BACKGROUND

Introduction	Ceftazidime (INN) is a third-generation cephalosporin antibiotic. Like other third-generation cephalosporins, it has broad spectrum activity against Gram-positive and Gram-negative bacteria. Unlike most third-generation agents, it is active against <i>Pseudomonas aeruginosa</i> , however it has weaker activity against Gram-positive microorganisms and is not used for such infections. Ceftazidime pentahydrate is marketed under various trade names including Cefzim (Pharco B International), Fortum (GSK), and Fortaz.
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Keywords	cazpentahydrate; gr20263pentahydrate; innersalt,(6r-(6-alpha,7-beta(z)))-droxidpentahydrate; sn401pentahydrate; CEFTAZIME; Kefazim; (6R,7R)-7-[[[(2Z)-2-(2-Amino-1,3-thiazol-4-yl)-2-(1-hydroxy-2-methyl-1-oxopropan-2-yl)oxyiminoacetyl]amino]-8-oxo-3-(pyridi
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