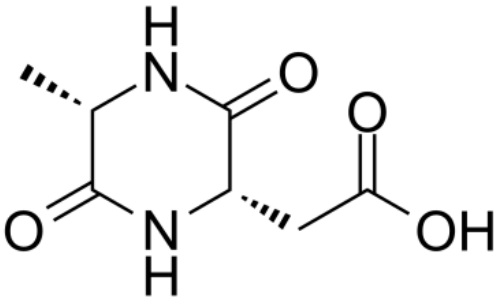
Product Data Sheet

Product Name: Aspartyl-alanyl-diketopiperazine
Cat. No.: GC35410

Chemical Properties

Cas. No.	110954-19-3		
SMILES	O=C(O)C[C@@H](C(N[C@H]1C)=O)NC1=O		
Formula	$C_7H_{10}N_2O_4$	M.Wt	186.17
Solubility	DMSO: 125 mg/mL (671.43 mM)	Storage	Store at -20°C
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

Aspartyl-alanyl-diketopiperazine (DA-DKP) is an immunomodulatory molecule generated by cleavage and cyclization from the N-terminus of human albumin and can modulate the inflammatory immune response through a molecular pathway implicated in T- lymphocyte anergy[1][2].

[1]. Bar-Or D, et al. Dipeptidyl peptidase IV activity in commercial solutions of human serum albumin. Anal Biochem. 2013 Oct 1;441(1):13-7. [2]. Shimonkevitz R, et al. A diketopiperazine fragment of human serum albumin modulates T-lymphocyte cytokine production through rap1. J Trauma. 2008

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Jan;64(1):35-41.