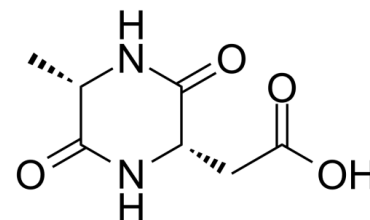


Data Sheet

Product Name:	Aspartyl-alanyl-diketopiperazine
Cat. No.:	CS-0027308
CAS No.:	110954-19-3
Molecular Formula:	C ₇ H ₁₀ N ₂ O ₄
Molecular Weight:	186.17
Target:	Others
Pathway:	Others
Solubility:	DMSO : 125 mg/mL (671.43 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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]}.

References:

- [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 Jan;64(1):35-41.

CAIndexNames:

2-Piperazineacetic acid, 5-methyl-3,6-dioxo-, (2S,5S)-

SMILES:

O=C(O)C[C@@H](C(N[C@H]1C=O)NC1=O)

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

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

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