

## 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)

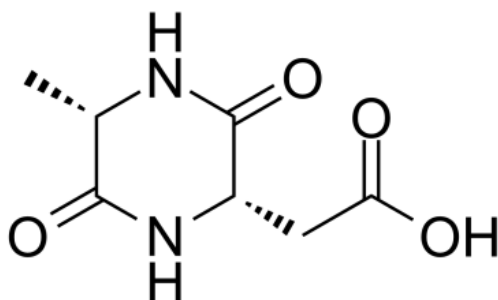
Formula  $C_7H_{10}N_2O_4$  M.Wt 186.17

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

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

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Jan;64(1):35-41.

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