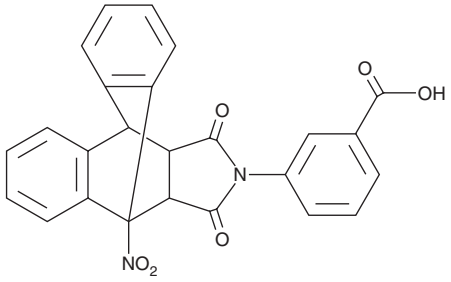
PRODUCT INFORMATION

S100P-IN-1

Item No. 46108

CAS Registry No.:	690991-06-1
Formal Name:	3-(1,3,3a,4,9,9a-hexahydro-4-nitro-1,3-dioxo-4,9[1′,2′]-benzeno-2H-benz[f]isoindol-2-yl)-benzoic acid
Synonyms:	S100 Calcium-binding Protein P Inhibitor 1, S100 Calcium-binding Protein P-IN-1, S100P Inhibitor 1
MF:	$C_{25}H_{16}N_2O_6$
FW:	440.4
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

S100P-IN-1 is supplied as a solid. A stock solution may be made by dissolving the S100P-IN-1 in the solvent of choice, which should be purged with an inert gas. S100P-IN-1 is sparingly soluble (1-10 mg/ml) in acetonitrile:water (1:1) and DMSO.

Description

S100P-IN-1 is an inhibitor of S100 calcium-binding protein P (S100P).[1] It inhibits the binding of S100P to its receptor, the receptor for advanced glycation end products (RAGE; IC_{50} = 22.7 nM). S100P-IN-1 (10 µM) selectively inhibits the invasion of BxPC-3 pancreatic cancer cells, which endogenously express S100P, over PANC-1 pancreatic cancer cells, which do not express S100P. It reduces tumor size and inhibits M2 polarization of tumor-associated macrophages in a subcutaneous murine Lewis lung carcinoma model at 10 mg/kg.[2]

References

1. Camara, R., Ogbeni, D., Gerstmann, L., *et al.* Discovery of novel small molecule inhibitors of S100P with in vitro anti-metastatic effects on pancreatic cancer cells. *Eur. J. Med. Chem.* **203**, 112621 (2020).
2. Gao, L., Bai, Y., Zhou, J., *et al.* S100P facilitates LUAD progression via PKA/c-Jun-mediated tumor-associated macrophage recruitment and polarization. *Cell Signal.* **120**, 111179 (2024).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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