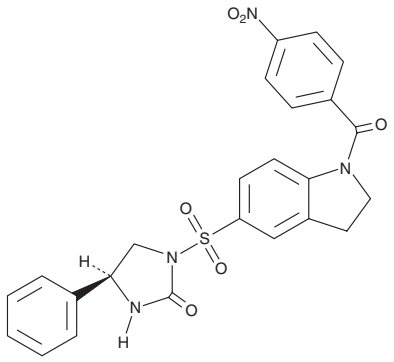
PRODUCT INFORMATION

KAS 08

Item No. 36474



CAS Registry No.:	203861-20-5
Formal Name:	(4S)-1-[[2,3-dihydro-1-(4-nitrobenzoyl)-1H-indol-5-yl]sulfonyl]-4-phenyl-2-imidazolidinone
MF:	$C_{24}H_{20}N_4O_6S$
FW:	492.5
Purity:	≥95%
UV/Vis.:	λ_{max}: 272 nm
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

KAS 08 is supplied as a solid. A stock solution may be made by dissolving the KAS 08 in the solvent of choice, which should be purged with an inert gas. KAS 08 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of KAS 08 in ethanol and DMSO is approximately 12 mg/ml and approximately 16 mg/ml in DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of KAS 08 can be prepared by directly dissolving the solid in aqueous buffers. The solubility of KAS 08 in PBS (pH 7.2) is approximately 0.25. We do not recommend storing the aqueous solution for more than one day.

Description

KAS 08 is an activator of stimulator of interferon genes (STING).[1] It activates STING with an EC_{50} value of 0.33 µM in a reporter assay using THP-1 human monocytes. KAS 08 increases the levels of IFN-β and IP-10 in the presence, but not absence, of cGAMP. It reduces the viability of CT26 mouse colorectal cancer cells when used at concentrations ranging from 0.31 to 20 µM. KAS 08 (15 mg/kg), when administered in combination with exogenous 2'3'-cGAMP (Item No. 19887), reduces tumor growth in a CT26 mouse syngeneic model.

Reference

1. Jung, H.R., Jo, S., Jeon, M.J., *et al.* Development of small-molecule STING activators for cancer immunotherapy. *Biomedicines* **10(1)**, 33 (2022).

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