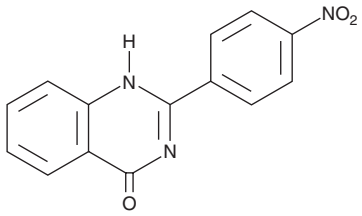
PRODUCT INFORMATION

TNKS-2-IN-1

Item No. 46833

CAS Registry No.:	4765-59-7
Formal Name:	2-(4-nitrophenyl)-4(3H)-quinazolinone
Synonyms:	Tankyrase 2-IN-1, Tankyrase 2 Inhibitor 1
MF:	$C_{14}H_9N_3O_3$
FW:	267.2
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

TNKS-2-IN-1 is supplied as a solid. A stock solution may be made by dissolving the TNKS-2-IN-1 in the solvent of choice, which should be purged with an inert gas. TNKS-2-IN-1 is slightly soluble (0.1-1 mg/ml) in DMSO.

Description

TNKS-2-IN-1 is an inhibitor of tankyrase 1 (TNKS1) and TNKS2 (IC_{50}s = 1.1 and 0.26 µM, respectively).[1] It is selective for TNKS1 and TNKS2 over poly(ADP-ribose) polymerase 1 (PARP1) but does inhibit PARP2 (IC_{50}s = >10 and 2.06 µM, respectively). TNKS-2-IN-1 inhibits the growth of K562 leukemia and COLO 205 colorectal cancer cells (IC_{50}s = 19 and 12 µM, respectively).[1]

References

1. Nathubhai, A., Haikarainen, T., Hayward, P.C., *et al*. Structure-activity relationships of 2-arylquinazolin-4-ones as highly selective and potent inhibitors of the tankyrases. *Eur. J. Med. Chem.* **118**, 316-327 (2016).
2. Mulakayala, N., Kandagatla, B., Ismail, *et al*. $InCl_3$-catalysed synthesis of 2-aryl quinazolin-4(3H)-ones and 5-aryl pyrazolo[4,3-d]pyrimidin-7(6H)-ones and their evaluation as potential anticancer agents. *Biooorg. Med. Chem. Lett*. **22(15)**, 5063-5066 (2012).

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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