

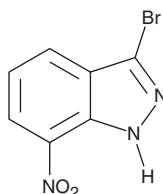
# Product Information



## 3-bromo-7-Nitroindazole

Catalog No. 81345

**CAS Registry No.:** 74209-34-0  
**Formal Name:** 3-bromo-7-nitro-1H-indazole  
**MF:** C<sub>7</sub>H<sub>4</sub>BrN<sub>3</sub>O<sub>2</sub>  
**FW:** 242.0  
**Purity:** ≥98%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 232, 361 nm



### Laboratory Procedures

For long term storage, we suggest that 3-bromo-7-Nitroindazole be stored as supplied at -20°C. It should be stable for at least one year.

3-bromo-7-Nitroindazole supplied as a crystalline solid. A stock solution may be made by dissolving the 3-bromo-7-Nitroindazole in an organic solvent purged with an inert gas. 3-bromo-7-Nitroindazole is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 3-bromo-7-Nitroindazole in these solvents is approximately 20 mg/ml.

Organic solvent-free aqueous solutions of 3-bromo-7-Nitroindazole can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of 3-bromo-7-Nitroindazole in PBS, pH 7.2, is approximately 50 µg/ml.

For maximum solubility in aqueous buffers, 3-bromo-7-Nitroindazole should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. 3-bromo-7-Nitroindazole has a solubility of approximately 1 mg/ml in a 50:50 solution of DMSO:Water using this method. We do not recommend storing the aqueous solution for more than one day.

3-bromo-7-Nitroindazole is a potent inhibitor of neuronal nitric oxide synthase (nNOS), and is approximately 4.5 times more potent than 7-Nitroindazole. The IC<sub>50</sub> value for 3-bromo-7-Nitroindazole in a rat cerebellar homogenate is 0.17 µM and in a bovine endothelial homogenate is 0.86 µM at an arginine concentration of 120 nM.<sup>1</sup>

### References

1. Bland-Ward, P.A., Pitcher, A., Wallace, P., *et al.* Isoform selectivity of indazole-based nitric oxide synthase inhibitors. *Br. J. Pharmacol.* **112**, 351P (1994).

### Related Product

7-Nitroindazole - Cat. No. 81340

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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