**Product datasheet**

**3-Aminobenzamide (3-AB) ab141069**

*Overview*

**Product name**
3-Aminobenzamide (3-AB)

**Description**
PARP inhibitor

**Biological description**
Poly(ADP-ribose) polymerase (PARP) inhibitor ($K_i = 1.8 \mu M$). Displays various biological actions including stimulation of angiogenesis. Additionally displays neuroprotective, anti-necrotic effects and shows free-radical scavenging ability.

**Purity**
> 99%

*Properties*

**Chemical name**
3-Aminobenzamide

**Molecular weight**
136.15

**Chemical structure**

![Chemical structure](image)

**Molecular formula**
C$_7$H$_8$N$_2$O

**CAS Number**
3544-24-9

**PubChem identifier**
1645

**Storage instructions**
Store at Room Temperature. The product can be stored for up to 12 months.

**Solubility overview**
Soluble in water to 100 mM

**Handling**
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

**SMILES**
O=C(N)c1cc(N)ccc1

**Source**
Synthetic

*Applications*
MG-63 cells were incubated at 37°C for 24h with vehicle control (0 µM) and different concentrations of 3-aminobenzamide (3-AB) (ab141069). Decreased expression of cyclin D1 (ab134175) in MG-63 cells correlates with an increase in 3-aminobenzamide (3-AB) concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10µg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with ab134175 at 1/500 dilution and ab8226 at 1 µg /ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (ab97051) at 1/10000 dilution and visualised using ECL development solution.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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