

### TMCB, Selective CK2 inhibitor ab120289

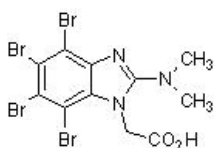
**2 References**   [画像数 3](#)

#### 製品の概要

製品名	TMCB, Selective CK2 inhibitor
製品の詳細	Selective CK2 inhibitor
生理活性の詳細	CK2 inhibitor ( $K_i = 0.25 \mu\text{M}$ ), more selective than DMAT. Unlike DMAT, TMCB displays selectivity over PIM1, HIPK2 and DYRK1a ( $K_i$ values are 8.65, 15.25 and 11.90 $\mu\text{M}$ , respectively) and a more favourable selectivity profile over a range of other kinases.

CAS 番号 905105-89-7

#### 構造式



#### 製品の特性

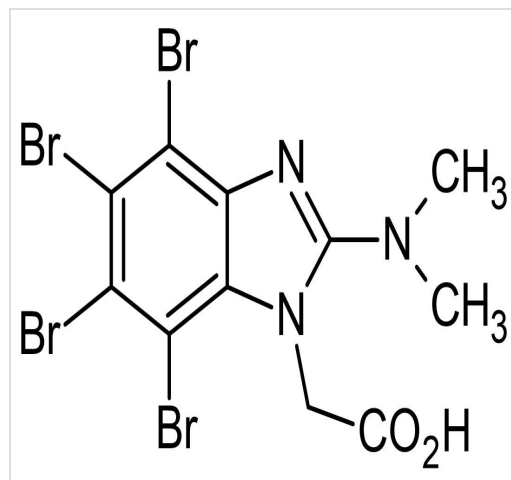
体系名	2-[4,5,6,7-Tetrabromo-2-(dimethylamino)-1 <i>H</i> -benzo[ <i>d</i> ]imidazol-1-yl]acetic acid
分子量	534.82
分子式	$\text{C}_{11}\text{H}_9\text{Br}_4\text{N}_3\text{O}_2$
PubChem 登録番号	46943415
保存方法	Store at Room Temperature. The product can be stored for up to 12 months.
溶解性	Soluble in DMSO to 25 mM (with heating)
使用に関する注意	<p>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 <math>-20^\circ\text{C}</math>. 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.</p> <p>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>
SMILES 線形表記	<chem>CN(C)c2nc1c(c(Br)c(Br)c1Br)n2CC(=O)O</chem>
由来	Synthetic

## アプリケーション

**The Abpromise guarantee** Abpromise保証は、 次のテスト済みアプリケーションにおけるab120289の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

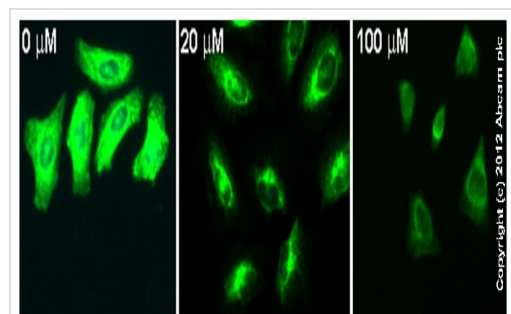
アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

## 画像



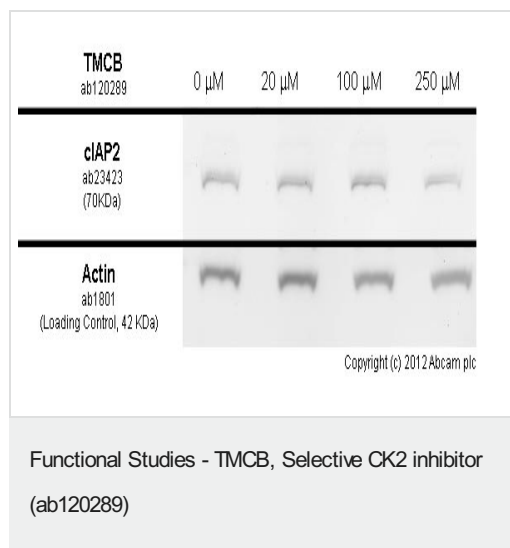
Chemical Structure - TMCB, Selective CK2 inhibitor  
(ab120289)

2D chemical structure image of ab120289, TMCB, Selective CK2 inhibitor



Immunocytochemistry/ Immunofluorescence -  
TMCB, Selective CK2 inhibitor (ab120289)

**ab23423** staining cIAP2 in HeLa cells treated with TMCB (ab120289), by ICC/IF. Decrease in cIAP2 expression correlates with increased concentration of TMCB, as described in literature. The cells were incubated at 37°C for 10 minutes in media containing different concentrations of ab120289 (TMCB) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab23423** (5 μg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.



HeLa cells were incubated at 37°C for 24h with vehicle control (0 μM) and different concentrations of TMCB (ab120289). Decreased expression of cIAP2 in HeLa cells correlates with an increase TMCB concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 40 μg 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 **ab23423** at 2 μg/ml and **ab1801** at 2 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. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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