BT18

Cat. No.: HY-111969
CAS No.: 924811-53-0
Molecular Formula: C₃₀H₃₁F₄N₃O₆S
Molecular Weight: 637.64
Target: Others
Pathway: Others
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description
BT18 is a molecule mimic with function similar to glial cell line-derived neurotrophic factor (GDNF)[1]. BT18 shows an effect on GDNF family receptor GFRα1 and RET receptor tyrosine kinase RetA function[2].

In Vitro
BT18 (50 µM; 1-90 minutes) activates AKT and ERK1/2 in time-dependently in MG87RET cell lines[1]. BT18 (1-50 µM; 90 minutes) activates AKT in a dose-dependent manner in MG87RET cell lines[1]. BT18 (5-50 µM; 15 minutes) appears to phosphorylate RET in concentration of 50 µM both in GFP-transfected and in GFRD1-transfected cells[1].

Western Blot Analysis[1]

<table>
<thead>
<tr>
<th>Cell Line:</th>
<th>MG87RET cell lines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration:</td>
<td>50 µM</td>
</tr>
<tr>
<td>Incubation Time:</td>
<td>1, 5, 15, 45, 90 minutes</td>
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<tr>
<td>Result:</td>
<td>Activated AKT and ERK1/2 in time-dependently.</td>
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</tbody>
</table>

REFERENCES

[1]. Leo Jakman, Characterization of small-molecule GDNF mimics.


Caution: Product has not been fully validated for medical applications. For research use only.

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