

# Selecting the best chemical probe for a target

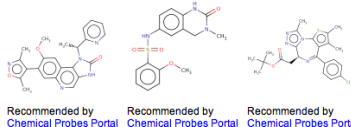
- Molecular Target Synopsis
  - Overview
  - Domains and Structures
  - Drugs and Clinical Candidates
  - Druggability
  - Chemistry
  - Ligand Efficiency Plot
  - Pathways
  - Family Cladogram
  - Interaction Network
  - Cellline Data Matrix
  - Gene Expression
  - Gene Copy Number Variation
  - RNA Interference
  - Mutations

## BRD4 (O60885) - Overview - Molecular Target Synopsis



### Chemical Probes

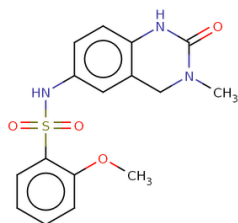
These are the chemical probes currently reported in chemical probe resources for this target. Remember that it is highly recommended to use more than one chemical probe as well as an inactive analog as a negative control for any given target. Please visit the chemical probes portal for more information on the general use of chemical probes and the specific resources for further details on the use of these specific probes. ([See details](#))



On the molecular target synopsis page, scroll down to 'Chemical Probes'. This shows chemical probes currently reported in chemical probe resources for this target. Remember that it is highly recommended to use more than one chemical probe as well as an inactive analog as a negative control for any given target.



## 1016603 - Overview - Compound Synopsis



Synonyms	
ONS	
Molecular Formula	
C16H17N3O4S	
IUPAC	
2-methoxy-N-(3-methyl-2-oxo-1,2,3,4-tetrahydroquinazolin-6-yl)benzene-1-sulfona...	
Standard InChI	
InChI=1S/C16H17N3O4S/c1-19-10-11-9-12(7-8-13(11)17-16(19)20)18-24(21,22)15-6-4-3...	
SD File	
SciTeGic10121214212D 24 26 0 0 0 999 V2000 -7.5533 0...	
Smiles	
COc1ccccc1S(=O)(=O)Nc2ccc3NC(=O)N(C)C3c2	
Cross References	
PDB Het Code	<a href="#">ONS</a>
ChEMBL	<a href="#">CHEMBL2179387</a>
Targets Recommended as a Probe	
<a href="#">O60885</a> , <a href="#">Q15059</a> , <a href="#">P25440</a> , <a href="#">Q58F21</a>	



chemical Probes.org

Protein Families    Organizations    Chemical probe reviewers    Further reading    Funders    Feedback    About

Recent updates

### I-BET151: Selective BET bromodomains inhibitor

Summary	
Targets:	BRD2 BRD3 BRD4 BRDT
Inactive control:	No
Target Class:	Bromodomains
In vitro potency:	6.1-6.6 (FP) pIC50
Selectivity in family:	selective
Selectivity outside family:	No known off-target
Potency in cells (recommended use):	0.001-1 μM
Comment on use:	Antiproliferative at concentrations > 5 μM
In vivo activity:	Yes
Bioprofile:	ChEMBL
Reference:	Dawson et al. Nature 2011

Related Compounds

Clicking on a chemical probe structure takes you to its compound synopsis page where you can explore other compounds with similar scaffolds, its protein affinity profile and more.

Clicking the link to the Chemical Probes Portal (<http://www.chemicalprobes.org>) will take you to the Chemical Probes Portal entry for this probe.