

## Product Information

### Gap junction protein inhibitor, Tonabersat, Purity ≥98%

**Cat. No.:** X24-08-YM341

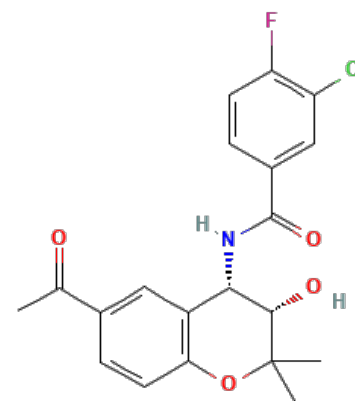
**Size:** 5 mg; 10 mg; 25 mg; 50 mg

**MDL:** MFCD00944458

**CAS Number:** 175013-84-0

**Compound CID:** 6918324

**Synonym:** 175013-84-0; SB-220453; *N*-[(3*S*,4*S*)-6-Acetyl-3-hydroxy-2,2-dimethyl-3,4-dihydrochromen-4-yl]-3-chloro-4-fluorobenzamide



**This product is for research use only and is not intended for diagnostic use.**

#### Product Information

<b>Description</b>	Tonabersat is an effective cytoskeleton inhibitor, that has the ability to prevent the pathway of cytoskeletal signaling by inhibiting gap junction protein.
<b>Molecular Weight</b>	391.82
<b>Molecular Formula</b>	C <sub>20</sub> H <sub>19</sub> ClFNO <sub>4</sub>
<b>IUPAC Name</b>	<i>N</i> -[(3 <i>S</i> ,4 <i>S</i> )-6-Acetyl-3-hydroxy-2,2-dimethyl-3,4-dihydrochromen-4-yl]-3-chloro-4-fluorobenzamide
<b>InChI</b>	InChI=1S/C20H19ClFNO4/c1-10(24)11-5-7-16-13(8-11)17(18(25)20(2,3)27-16)23-19(26)12-4-6-15(22)14(21)9-12/h4-9,17-18,25H,1-3H3,(H,23,26)/t17-,18-/m0/s1
<b>InChI Key</b>	SXRAPDIXXYFGJG-MDAHIHQXSA-N
<b>Canonical SMILES</b>	CCC(C)C(C(=O)NC(C(C)CC)C(=O)O)NC(=O)C(CC1=CC=CC=C1)NC(=O)C(C(C)CC)NC(=O)C(C(C)O)NC(=O)C(CCCCN)NC(=O)C(CCC(=O)O)NC(=O)C(C(C)O)NC(=O)C2CCCN2C(=O)C(CCCN=C(N)N)NC(=O)C(CO)N
<b>Isomeric SMILES</b>	CC[C@H](C)[C@@H](C(=O)N[C@@H]([C@@H](C)CC)C(=O)O)NC(=O)[C@H](CC1=CC=CC=C1)NC(=O)[C@H]([C@@H](C)CC)NC(=O)[C@H]([C@@H](C)O)NC(=O)[C@H](CCCN)NC(=O)[C@H](CCC(=O)O)NC(=O)[C@H]([C@@H](C)O)NC(=O)[C@H]2CCCN2C(=O)[C@H](CCCN=C(N)N)NC(=O)[C@H](CO)N
<b>Form</b>	Lyophilized powder
<b>Purity</b>	≥98%
<b>Titer</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade



**Applications**

Tonabersat is a cytoskeletal signaling inhibitor that can be used for its ability to modulate gap junction communication and potentially reduce neuronal excitability.

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**Storage**

Store at -20°C, and keep desiccated.

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