The Ca\(^{2+}\) release-activated Ca\(^{2+}\) (CRAC) channel is a highly Ca\(^{2+}\)-selective store-operated channel expressed in T cells, mast cells, and various other tissues. CRAC channels regulate critical cellular processes such as gene expression, motility, and the secretion of inflammatory mediators. The identification of Orai1, a key subunit of the CRAC channel pore, and STIM1, the endoplasmic reticulum (ER) Ca\(^{2+}\) sensor, have provided the tools to illuminate the mechanisms of regulation and the pore properties of CRAC channels. Opening of CRAC channels enables the refilling of ER Ca\(^{2+}\) stores and sustains long-lasting Ca\(^{2+}\) oscillations and plateau signals, critical for the proliferation of T cells and production of cytokines following antigenic stimulation.
CRAC Channel Inhibitors & Modulators

CM-4620
Cat. No.: HY-101942

Bioactivity: CM-4620 is a calcium-release activated calcium-channel (CRAC) inhibitor, with IC_{50} of 119, 895 nM for Orai1/STIM1 and Orai2/STIM1 channels, respectively.

Purity: 99.94%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

CRAC intermediate 1
Cat. No.: HY-20587

Bioactivity: CRAC intermediate 1 is a key intermediate in the chemical synthesis of a series of CRAC channel inhibitors, detailed information can be found in Patent WO 2010122089 A1, intermediate 9.

Purity: >98%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg

CRAC intermediate 2
Cat. No.: HY-20588

Bioactivity: CRAC intermediate 2 is an intermediate compound for CRAC inhibitor synthesis, extracted from patent WO 2013059666A1.

Purity: 99.96%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg

GSK-5498A
Cat. No.: HY-12521

Bioactivity: GSK-5498A is a selective small molecule blocker of CARC (IC_{50} 1 μM), inhibits mediator release from mast cells, and pro-inflammatory cytokine release from T-cells in a variety of species.

Purity: 97.45%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg

SOCE inhibitor 1
Cat. No.: HY-112913

Bioactivity: SOCE inhibitor 1 is a store-operated calcium entry (SOCE) inhibitor with an IC_{50} of 4.4 μM.

Purity: >98%
Clinical Data: No Development Reported
Size: 250 mg, 500 mg, 100 mg

Synta66
Cat. No.: HY-111325

Bioactivity: Synta66 is an inhibitor of store-operated calcium entry channel Orai, which forms the pore of the CRAC channel, and used for the research of neurological disease.

Purity: 99.31%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg

YM-58483
(BTP2)
Cat. No.: HY-100831

Bioactivity: YM-58483 is the first selective and potent inhibitor of CRAC channels and subsequent Ca^{2+} signals.

Purity: 98.77%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg